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Claim Amendments**No claim is amended in this Amendment.**

1        1. (previously presented) A method of authentication in a telemetry system, said method  
2 comprising:

3              transmitting, by each of a plurality of transmitters, transmissions intermittently at time intervals  
4 and at a plurality of frequencies independently of any receiver of said transmissions and independently of  
5 any other of said plurality of transmitters, and

6              holding, by a receiver, simultaneously for each of said plurality of transmitters, data indicative of  
7 an expected frequency and an expected time of at least one future transmission, and

8              authenticating transmissions based on an expected and actual transmission frequency and time.

1        2. (previously presented) The method of claim 1 wherein said expected transmission frequency  
2 comprises estimate for transmitter reference frequency drift.

3        3. (previously presented) The method of claim 1 wherein said expected transmission time  
4 comprises estimate for transmitter time reference drift.

1        4. (previously presented) The method of claim 1 wherein each of said plurality of transmitters  
2 controls transmission frequency and time between transmissions based on frequency-time pattern that is  
3 different for each of said plurality of transmitters.

1        5. (previously presented) The method of claim 1 wherein, each of said plurality of transmitters is  
2 for varying encryption key between transmissions.

1        6. (previously presented) The method of claim 5 wherein said encryption key is varied based on  
2 frequency-time pattern for controlling transmission frequency and time between transmissions.

1        7. (previously presented) The method of claim 1 wherein each of said plurality of transmitters is  
2 for verifiable and variable modification of transmitted messages content based on frequency-time pattern  
3 for controlling transmission frequency and time between transmissions.

1        8. (previously presented) A receiver for authenticating telemetry transmissions, said receiver  
2 comprising:

3              logic for holding, simultaneously for each plurality of transmissions, data indicative of an  
4 expected time and an expected frequency of at least one future transmission, wherein each said plurality

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5       of transmissions is transmitted by a different one of a plurality of transmitters, wherein each of said  
6       plurality of transmitters is for transmitting transmissions intermittently at time intervals and at a plurality  
7       of frequencies independently of any equipment that is capable of receiving any of said transmissions from  
8       any of said plurality of transmitters, and

9               circuitry for receiving said transmissions;

10              wherein said receiver is for authenticating transmissions based on an expected and actual  
11              transmission frequency and time.

1              9. (previously presented) The receiver of claim 8 wherein said expected transmission frequency  
2       comprises estimate for transmitter reference frequency drift.

1              10. (previously presented) The receiver of claim 8 wherein said expected transmission time  
2       comprises estimate for transmitter time reference drift.

1              11. (previously presented) The receiver of claim 8 wherein frequency and time of transmissions is  
2       controlled according to a frequency-time pattern that is different for each of said plurality of transmitters.

1              12. (previously presented) The receiver of claim 8 wherein said receiver is for changing  
2       decryption key between transmissions based on a frequency-time pattern for controlling frequency and  
3       time of transmissions.

1              13. (previously presented) The receiver of claim 8 wherein said receiver, in operation,  
2       authenticates transmissions based on verifiable and variable modification of transmission content.

1              14. (previously presented) The receiver of claim 13 wherein said verifiable modification is based  
2       on frequency-time pattern for controlling transmission frequency and time.

1              15. (previously presented) A frequency hopping telemetry transmitter comprising:

2               circuit for transmitting transmissions intermittently, at time intervals and at various frequencies,  
3       independently of any receiver of said transmissions, and

4               logic for providing a predetermined frequency-time pattern for controlling transmission frequency  
5       and time between transmissions, and

6               wherein said transmitter is for varying encryption, for said transmissions, based, at least in part,  
7       on said frequency-time pattern.

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1        16. (previously presented) The transmitter of claim 15 wherein said frequency-time pattern is  
2 individually selected for said transmitter from a plurality of predetermined patterns.

1        17. (previously presented) The transmitter of claim 15 wherein said frequency-time pattern is  
2 predetermined based on a transmitter identification.

1        18. (previously presented) A frequency hopping telemetry transmitter comprising:  
2            circuit for transmitting transmissions intermittently, at time intervals and at various frequencies,  
3 independently of any receiver of said transmissions, and

4            logic for providing a predetermined frequency-time pattern for controlling transmission frequency  
5 and time between transmissions, and

6            wherein said transmitter is for modification of at least a portion of known data for transmission  
7 using a modifier that is varied based, at least in part, on said frequency-time pattern.

1        19. (previously presented) The transmitter of claim 18 wherein frequency-time pattern is  
2 individually selected for said transmitter from a plurality of predetermined patterns.

1        20. (previously presented) The transmitter of claim 18 wherein said frequency-time pattern is  
2 predetermined based on a transmitter identification.